



## Gulf of Mexico Harmful Algal Bloom Bulletin

13 September 2004

National Ocean Service/NCCOS and CSC

NESDIS/CoastWatch and NDBC

Last bulletin: September 3, 2004

### Analysis

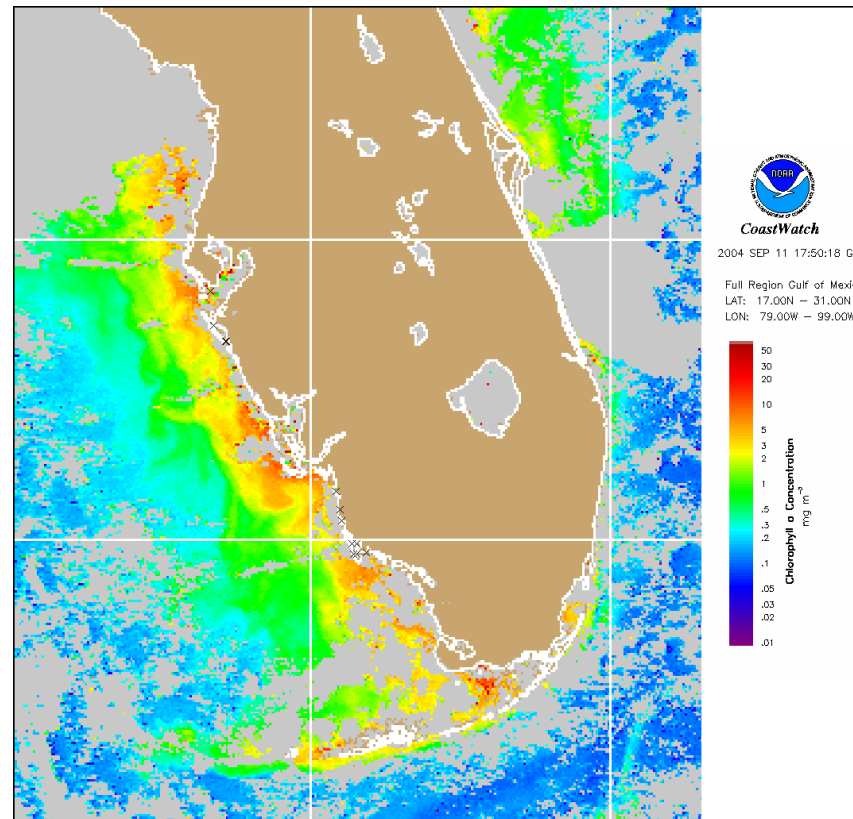
The hurricane-induced non-harmful blooms are still present. Chlorophyll is high, over 5 ug/L (with spots approaching 10 ug/L) off Tampa Bay and from Venice to Sanibel. State sampling showed that no *Karenia* was present off Tampa Bay and Naples.

Strong easterly winds over several days, with an expectation of continued easterlies until Ivan is closer. These conditions favor the appearance of *Karenia*, especially at this time.

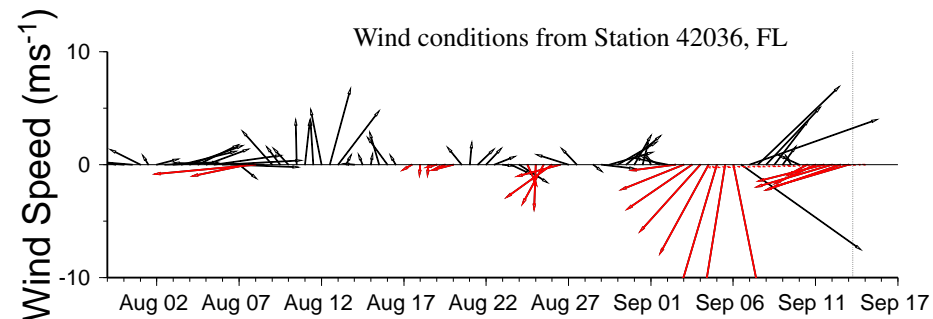
Conditions are of sufficient concern that sampling off Sarasota and Venice is recommended.

Bear in mind that hurricanes are problematic for determining HABs, as a model for their impact does not exist.

Stumpf



Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from August 22, 2004 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

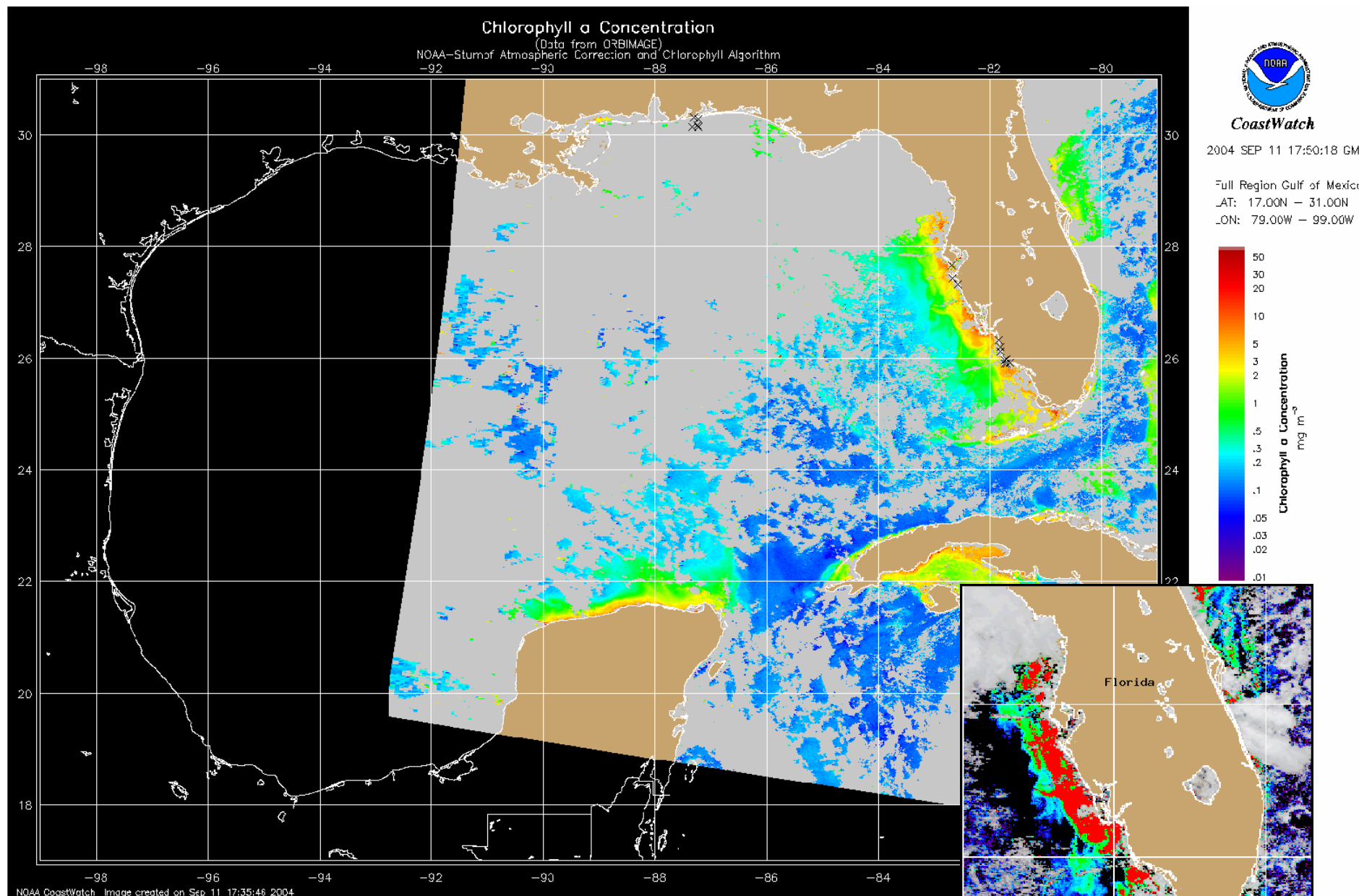


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Easterly winds continue for 1-2 days. The forecast track and timing of Ivan keeps shifting owing to poor steering currents.

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Chlorophyll concentration from satellite with cell concentration sampling data from August 22, 2004 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis and image for interpretation)

